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It is necessary to see that the strainer does not become choked. This may be prevented by shaking. The strainer should, of course, be kept in water between uses. When it finally becomes clogged with sand, a new one must be put on.

By using wood with different sized conducting vessels, a sorting of the diatoms may be affected. By using pine, spruce, white wood of the red cedar, a graded series of strainers can be had, the last being much finer than the first.

#### STAINING PROTOZOA

Darling (Science: Jan. 10, 1913) calls attention to the dearth of knowledge of the acidophilic substances in the nuclei of protozoa, owing to the predominant use of basophilic staining substances, and to the "lack of a satisfactory technic for demonstrating acidophilic substance in wet fixed films."

The author suggests careful differentiation of such polychrome stains as Romanowsky or Hastings-Giemsa, by ammoniated ethyl alcohol. Under such conditions, studying *Entamebae*, he found a definite arrangement of an acidophilic substance (oxychromatin) within the nucleus, showing a structure quite different from that shown with the usual basichromatin stains. He believes that careful and critical study will reveal that this oxychromatin may have important functional relations to the changes that are so well known in the true chromatin in nuclear activity.

#### DOUBLE-STAIN METHOD FOR THE POLAR BODIES OF DIPHTHERIA BACILLI

Dr. Marie Raskin (Apoth. Ztg. XXVII, p. 10; Abstr. United St. Naval Med. Bull. Vol. 6, No. 4, p. 611) proposes a technic for these bodies, whose distinctive value lies in the fact that only two operations are necessary, i. e., the application of a stain with both colors present, then water washing.

Formula for stain:—

|                                  |       |
|----------------------------------|-------|
| Glacial Acetic Acid.....         | 5 cc. |
| Dist. Water .....                | 95 "  |
| Alc. (95%) .....                 | 100 " |
| Old Sat. sol Methylene blue..... | 4 "   |
| Ziehl's phenol fuchsine Sol..... | 4 "   |